## **AMENDMENTS TO THE CLAIMS**

Claims 1-40 are pending in the instant application. Claims 1, 21 and 32 are independent. Claims 2-20, 22-31 and 32-40 depend directly or indirectly from independent claims 1, 21, and 32, respectively. Claims 1-7, 11, 14-22, 24, 26-28, 32-34, 36-37 and 39-40 have been amended to clarify the claim language to further prosecution.

## Listing of claims:

1. (Currently Amended) A method for reducing phase noise, comprising:

generating, in a transmitter, a <u>local oscillator (LO)</u> signal at a particular frequency, the <u>LO</u> signal being associated with a <u>LO</u> harmonic frequency signal disposed at a <u>LO</u> harmonic frequency;

selecting, in said transmitter, frequency content disposed in a region around the <u>LO</u> harmonic frequency; and

attenuating, in said transmitter, said selected frequency content disposed in said region around the <u>LO</u> harmonic frequency.

Application No. 10/813,486 RCE-Reply to Final Office Action of December 9, 2008

2. (Currently Amended) The method of claim 1, comprising:

associating the signal with a second <u>LO</u> harmonic frequency signal disposed at a second <u>LO</u> harmonic frequency; and

selectively attenuating frequency content disposed in a second region around the second <u>LO</u> harmonic frequency.

- 3. (Currently Amended) The method of claim 1, comprising: applying at least one non-linear operation to the <u>LO</u> signal; and transmitting the applied signal.
- 4. (Currently Amended) The method of claim 3, wherein applying at least one non-linear operation to the <u>LO</u> signal comprises dividing the <u>LO</u> signal.
- 5. (Currently Amended) The method of claim 3, wherein applying at least one non-linear operation to the <u>LO</u> signal comprises mixing the <u>LO</u> signal with a reference signal.
- 6. (Currently Amended) The method of claim 3, wherein applying at least one non-linear operation to the <u>LO</u> signal comprises amplifying the <u>LO</u> signal.

- 7. (Currently Amended) The method of claim 1, wherein the <u>LO</u> signal is generated by at least one of a fixed frequency oscillator, a voltage controlled oscillator, and a current controlled oscillator.
- 8. (Previously Presented) The method of claim 1, wherein the frequency content is selectively attenuated by at least one attenuating circuit.
- 9. (Previously Presented) The method of claim 8, wherein the at least one attenuating circuit comprises at least one of an integrated component and a discrete component.
- 10. (Previously Presented) The method of claim 8, wherein the at least one attenuating circuit comprises at least one harmonic trap.
  - 11. (Currently Amended) The method of claim 1, comprising:

buffering the <u>LO</u> signal prior to selectively attenuating the frequency content.

12. (Previously Presented) The method of claim 11, wherein the buffering is performed by a buffer.

Application No. 10/813,486 RCE-Reply to Final Office Action of December 9, 2008

- 13. (Previously Presented) The method of claim 12, wherein the selective attenuating of the frequency content is performed within the buffer.
- 14. (Currently Amended) The method of claim 1, wherein the <u>LO</u> signal comprises a differential signal.
- 15. (Currently Amended) The method of claim 1, wherein the <u>LO</u> signal comprises a quadrature signal.
- 16. (Currently Amended) The method of claim 1, wherein the selective attenuating comprises canceling frequency content disposed in the region around the LO harmonic frequency.
- 17. (Currently Amended) The method of claim 16, wherein the canceling frequency content disposed in the region around the <u>LO</u> harmonic frequency comprises canceling frequency content disposed only at the <u>LO</u> harmonic frequency.
- 18. (Currently Amended) The method of claim 1, wherein the selective attenuating comprises notching frequency content disposed in the region around the LO harmonic frequency.

- 19. (Currently Amended) The method of claim 18, wherein the notching frequency content comprises notching frequency content disposed only at the <u>LO</u> harmonic frequency.
- 20. (Currently Amended) The method of claim 1, wherein the selective attenuating comprises bandstopping frequency content disposed in the region around the <u>LO</u> harmonic frequency.
  - 21. (Currently Amended) A circuit for reducing phase noise, comprising:

a signal generator in a transmitter, said signal generator generates a <u>local</u> <u>oscillator (LO)</u> signal at a particular frequency, the <u>LO</u> signal being associated with a LO harmonic frequency signal disposed at a <u>LO</u> harmonic frequency; and

an attenuating circuit in said transmitter, said attenuating circuit selects frequency content disposed in a region around the <u>LO</u> harmonic frequency and attenuates said selected frequency content disposed in said region around the <u>LO</u> harmonic frequency.

- 22. (Currently Amended) The circuit of claim 21, comprising:
- a buffer for buffering the <u>LO</u> signal, the buffer being coupled to the signal generator.

- 23. (Previously Presented) The circuit of claim 22, wherein the attenuating circuit is part of the buffer.
  - 24. (Currently Amended) The circuit of claim 21, comprising:
- a non-linear operation circuit that applies at least one non-linear operation to the <u>LO</u> signal to obtain an outgoing signal; and
  - a transmitting circuit for transmitting the outgoing signal.
- 25. (Previously Presented) The circuit of claim 24, wherein the transmitting circuit comprises an antenna.
- 26. (Currently Amended) The circuit of claim 24, wherein the non-linear operation circuit comprises a divider that divides the <u>LO</u> signal.
- 27. (Currently Amended) The circuit of claim 24, wherein the non-linear operation circuit comprises a mixer that mixes the <u>LO</u> signal with a reference signal.
- 28. (Currently Amended) The circuit of claim 24, wherein the non-linear operation circuit comprises an amplifier that amplifies the <u>LO</u> signal.

- 29. (Previously Presented) The circuit of claim 21, wherein the signal generator comprises at least one of a fixed frequency oscillator, a voltage controlled oscillator, and a current controlled oscillator.
- 30. (Previously Presented) The circuit of claim 21, wherein the attenuating circuit comprises at least one of an integrated component and a discrete component.
- 31. (Previously Presented) The circuit of claim 30, wherein the attenuating circuit comprises at least one harmonic trap.
  - 32. (Currently Amended) A system for reducing phase noise, comprising:
- a signal generator in a transmitter, said signal generator generates a <u>local</u> <u>oscillator (LO)</u> signal at a particular frequency, the <u>LO</u> signal being associated with a <u>LO</u> harmonic frequency signal disposed at a <u>LO</u> harmonic frequency; and
- a buffer that buffers the <u>LO</u> signal, the buffer adapted to select frequency content disposed in a region around the <u>LO</u> harmonic frequency and attenuate said selected frequency content disposed in said region around the <u>LO</u> harmonic frequency.

- 33. (Currently Amended) The system of claim 32, wherein the <u>LO</u> signal comprises a differential signal.
- 34. (Currently Amended) The system of claim 32, wherein the <u>LO</u> signal comprises a quadrature signal.
- 35. (Previously Presented) The system of claim 32, wherein the signal generator comprises a differential signal generator.
- 36. (Currently Amended) The system of claim 35, wherein the buffer comprises a differential pair of transistors, the differential pair of transistors being adapted to receive the <u>LO</u> signal.
- 37. (Currently Amended) The system of claim 32, wherein the buffer comprises a harmonic trap, the harmonic trap being adapted to attenuate the frequency content disposed in the region around the <u>LO</u> harmonic frequency.
- 38. (Previously Presented) The system of claim 37, wherein the harmonic trap is disposed across a differential output of the buffer.

Application No. 10/813,486 RCE-Reply to Final Office Action of December 9, 2008

- 39. (Currently Amended) The system of claim 32, wherein the buffer is adapted to band stop the frequency content disposed in the region around the <u>LO</u> harmonic frequency.
- 40. (Currently Amended) The system of claim 32, wherein the buffer is adapted to notch the frequency content disposed only at approximately the LO harmonic frequency.